



TECHNICAL DATA SHEET

HDPE-HE3490-LS – (HIGH DENSITY POLYETHYLENE)

Product Description:

HE3490-LS is a black, bimodal, high density polyethylene classified as a MRS 10.0 material (PE100) produced by the advanced Borstar® Technology. Well dispersed carbon black gives outstanding UV resistance. Long term stability is ensured by an optimized stabilization system.

Typical Applications:

HE3490-LS is recommended for **pressure pipe systems** in the applications field of drinking water and **natural gas, pressure sewerage, relining, sea outfall and industrial**. It is especially designed to produce larger diameter, **thick wall pipe**, but can be processed for the whole range of diameters. It also shows excellent resistance to rapid crack propagation and slow crack growth.

- Pipes
- Pressure Pipes
- Gas Pipes
- Water Pipes
- Sewer Pipes

Origin: UAE

BOROUGE PTE LTD-ABU DHABI

<u>PHYSICAL PROPERTIES</u>	<u>Test Conditions</u>	<u>Test Method</u>	<u>Units</u>	<u>TYPICAL VALUE</u>
Carbon Black Content	≥2	ISO 6964	%	2
Carbon Black Dispersion	≤3	ISO 18553		3
Density	Compound	ISO 1183	g/cm ³	0.96
MFI	At 5Kg Load, 190°C	ISO 1133	g/10min	0.25
<u>MECHANICAL PROPERTIES:</u>				
Rapid crack propagation resistance (RCP)	>10, Pc at 0°C	ISO 13477	Bar	10
Resistance to Slow Crack Growth	9.2 bar,800C >1000	ISO 13479	h	1000
Tensile elongation at break	600<,50mm/min	ISO 527	%	600
Tensile Modulus	1mm/min	ISO 527	MPa	1100
Tensile strength at Yield	50mm/min	ISO 527	MPa	25
<u>THERMAL PROPERTIES:</u>				
Oxidation Induction Time (OIT)		ISO 11357-6	min	20